

RADIO FREQUENCY IDENTIFICATION TAGS WITH COMPENSATING ELEMENTS

ABSTRACT

Radio frequency identification (RFID) tags include compensating elements. The compensating elements enhance the operation of a compensated RFID tag, even when in close proximity to other RFID tags, whether the other tags are compensated or uncompensated. The compensating elements can include a closed loop of conductive material added to a RFID tag antenna. The conductive loop compensates the RFID tag performance when multiple RFID tags are in close proximity, keeping the frequency response of the assembled group of tags substantially centered near the operating frequency of the RFID system.